# Citywide Slum Upgrading:

# the Challenges in Project Planning and Programme Design



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1.

# How do we do it?

Understanding & managing the process

Project versus Program

# The Design of the Program

Organisational Aspects & Institutional Management

Who does what?

When?

How?

For whom?

For how much?

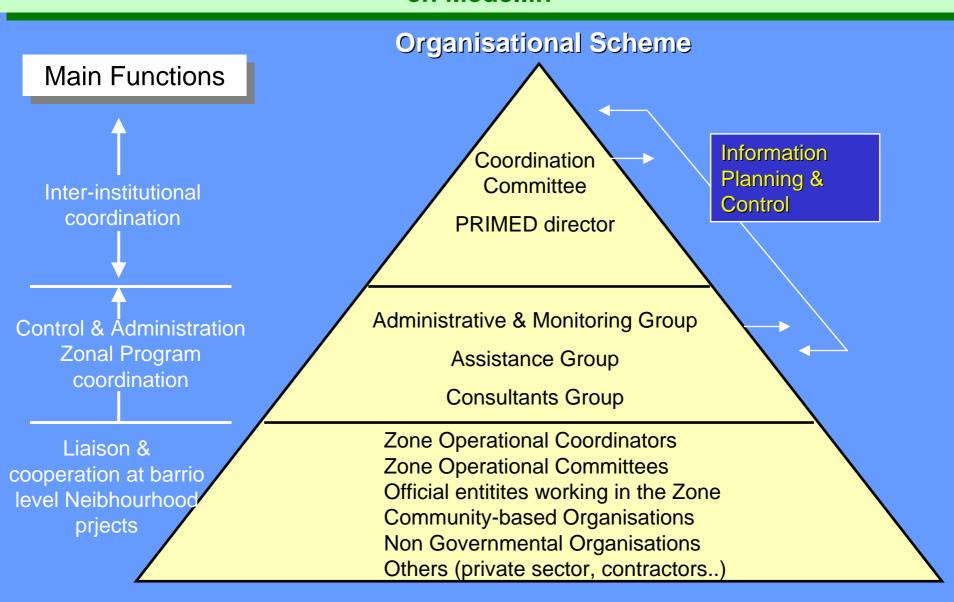
Follow-up?

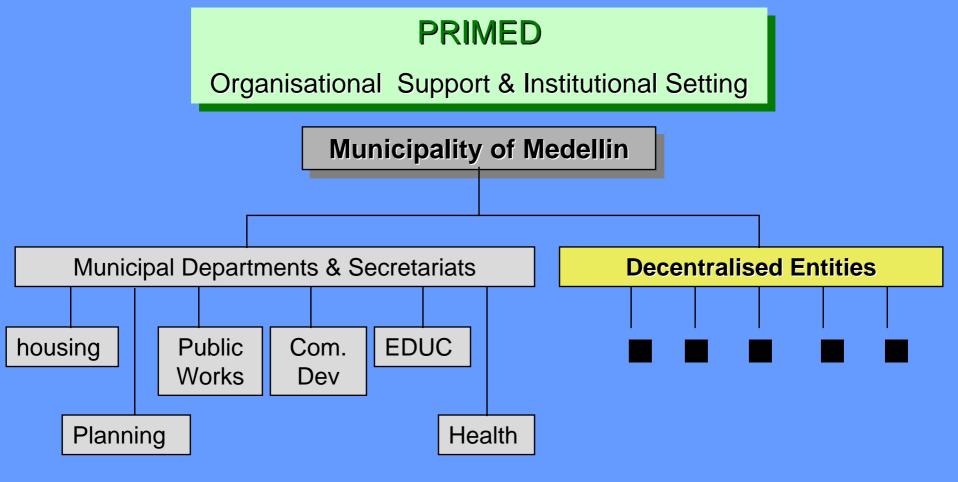
Who decides what and how?

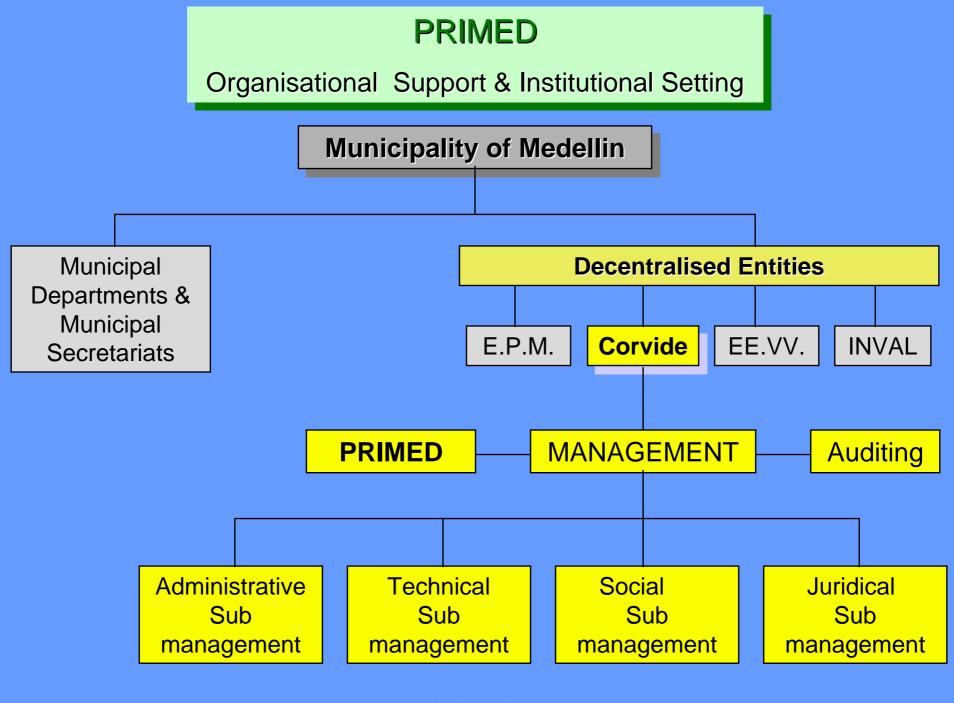
From where comes the \$?

Who pays & who finances?

# PRIMED-Programa Integral de Mejoramiento de Barrios Subnormales en Medellin



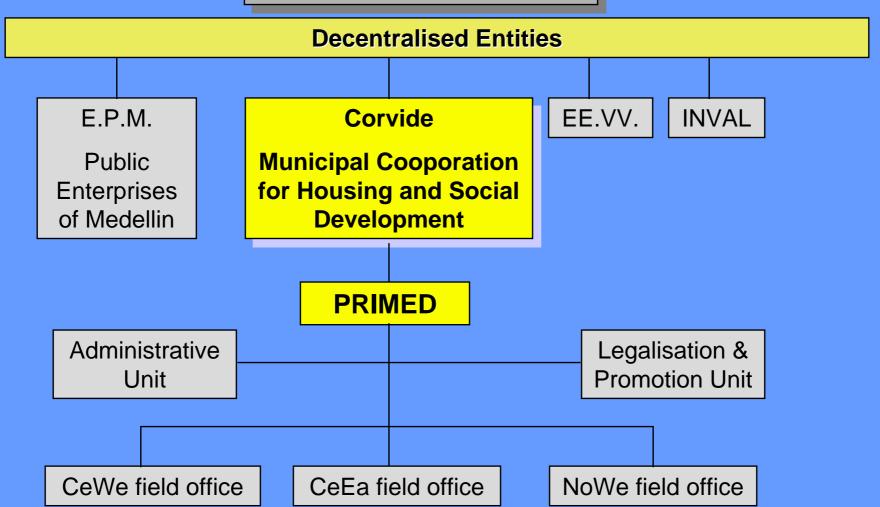


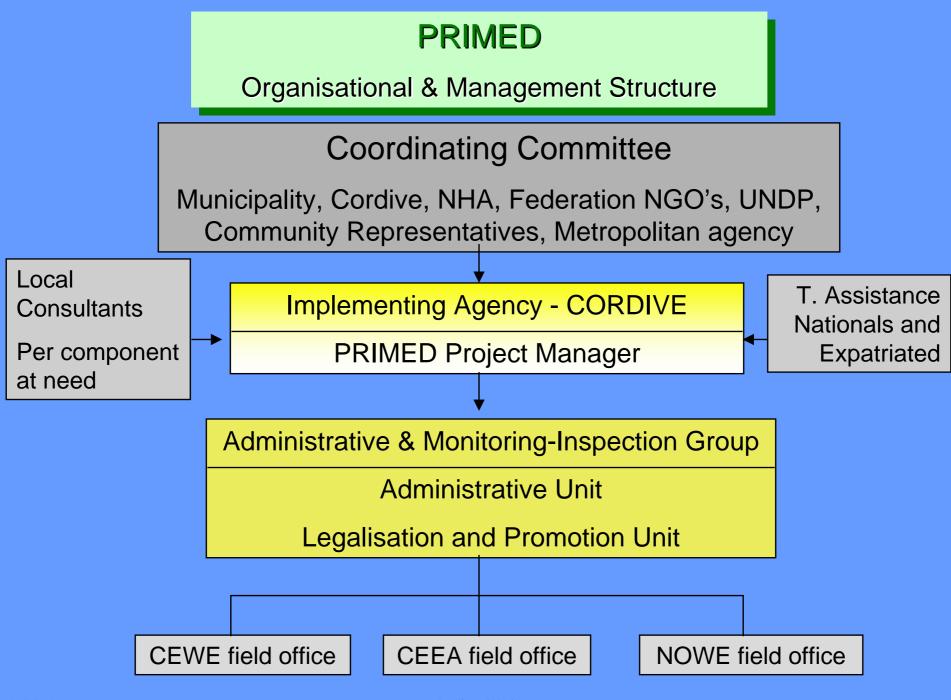


#### **PRIMED**

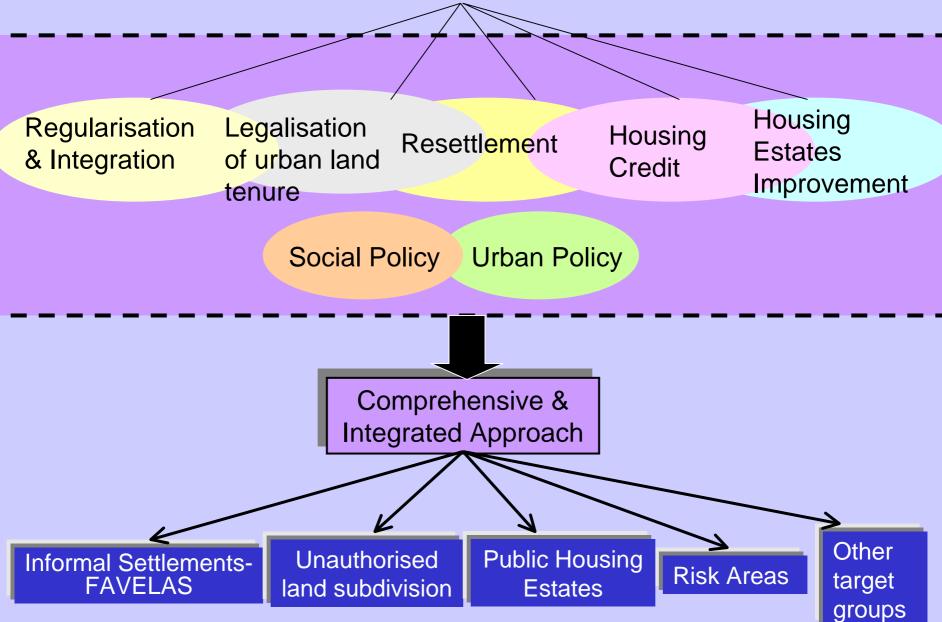
Organisational Support & Institutional Setting



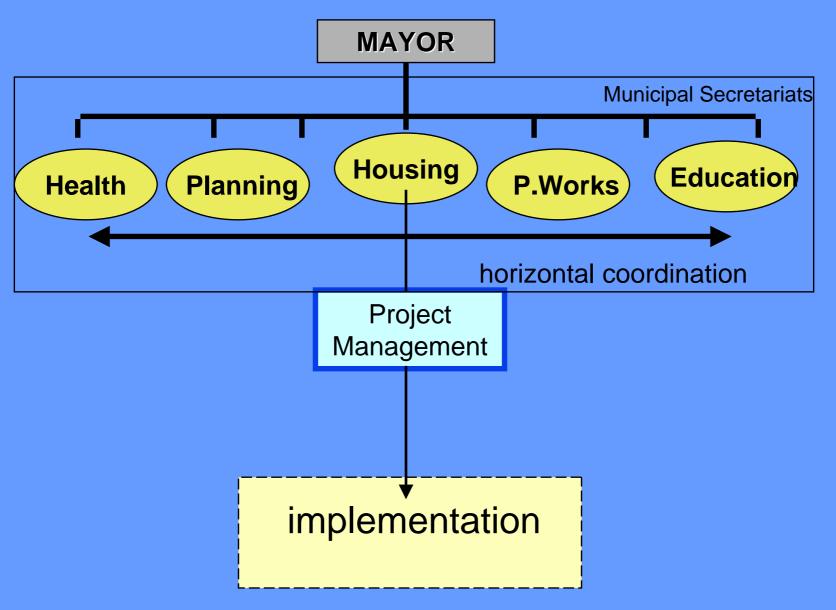




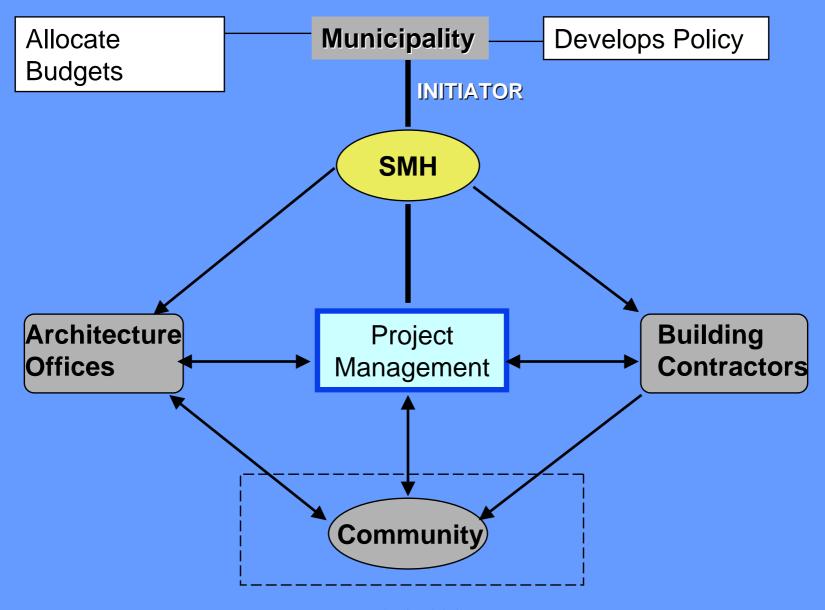
### **Municipal Housing Policy**



#### Rio de Janeiro's Upgrading Program - Favela Bairro

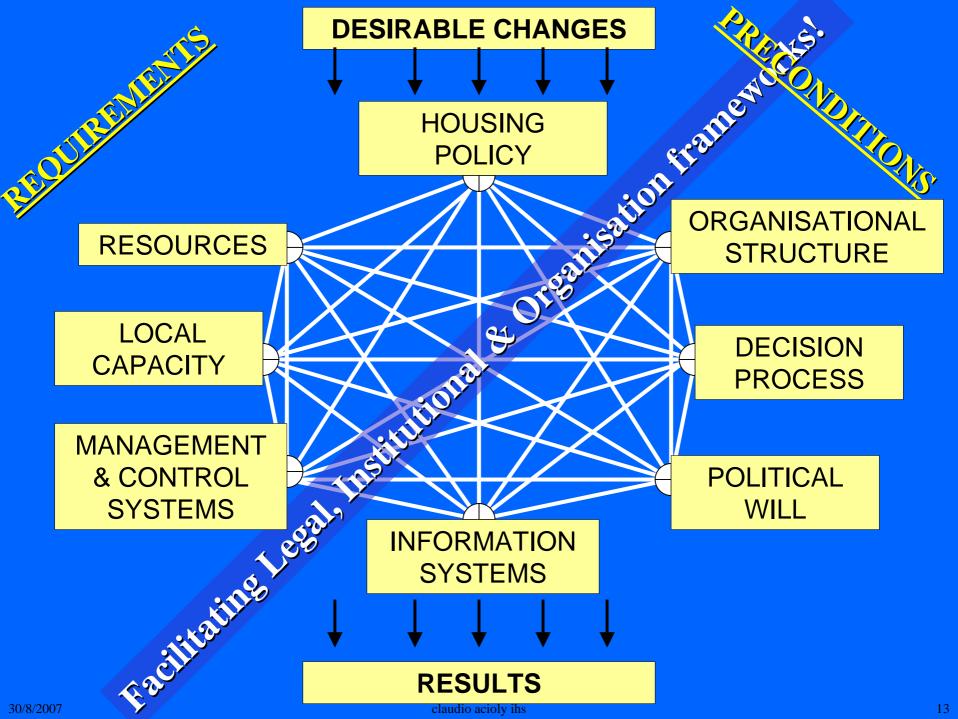


#### Rio de Janeiro's Upgrading Program - Favela Bairro



#### Rio de Janeiro's Upgrading Program - Favela Bairro





### Weaknesses at Program Level

1.

Weak Organisational basis 2.

Lack of a vision on urban management

3.

Lack of institutionalisation of processes & procedures – institutional informality

4.

Full integration is rarely accomplished partly because of complexity of the legal proceedings & procedures related to regularising land tenure rights

5.

Lack of vision & experience with institutional management

6.

Weak participatory processes – technocratic tradition

## **Brief Conclusions:**

The Institutional and Management Dimensions

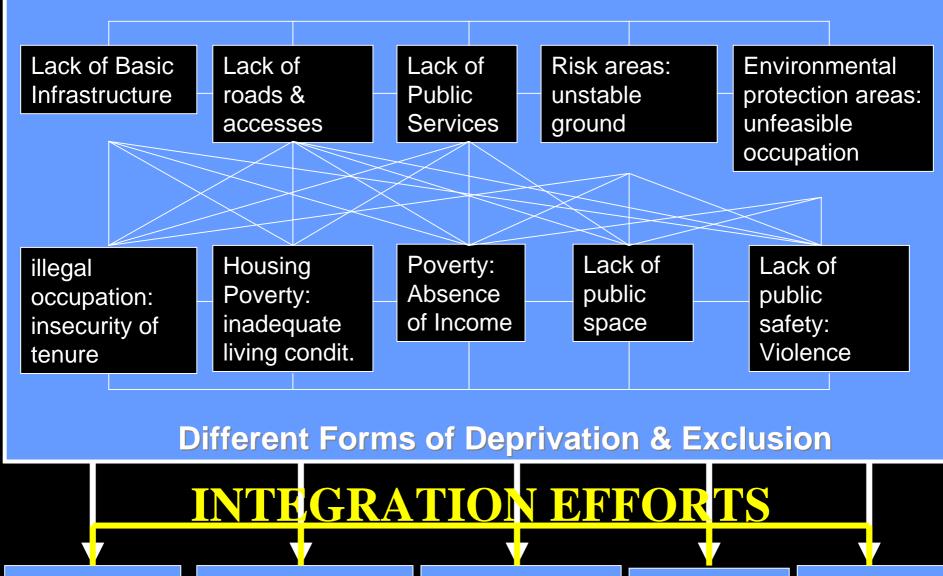
# 2.

# The Project

# The Design of the Project(s)

The Project Planning & Project Management Aspects

- •Who coordinates project actions?
- •Who coordinates execution actions?
- •Which priority?
- •Who defines the key problem and how?
- •How to prepare the plan?
- •Who participates in the formulation and how?
- •Which type of information does exist?
- •Which urban design criteria should we use?
- •Which norm should be applied?
- •Which standard of infrastructure should be applied?



Urbanisation Project

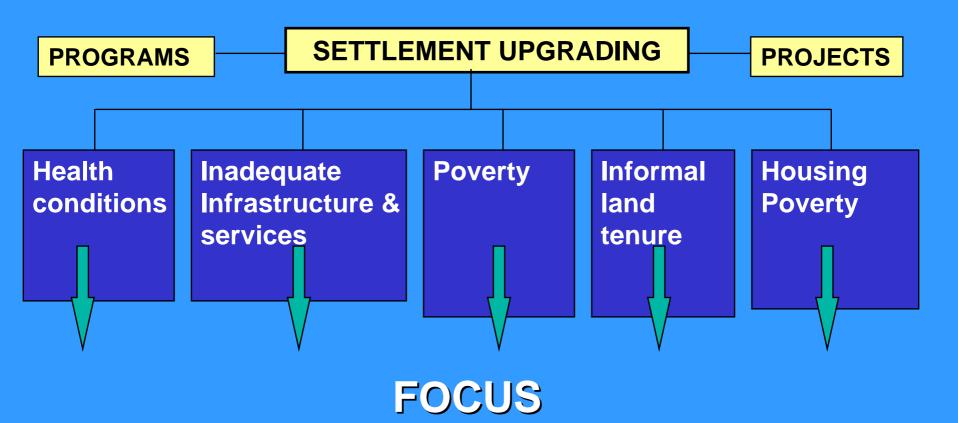
Regularisation
Project and
Urbanistic
Formalisation

Project of Legalisation and Land Titling

Relocation Project

Project of Local economic developmt.

#### PRIORITIES OF PROGRAMS AND PROJECTS



LEADS TO DIFFERENT KINDS OF IMPROVEMENT WITH DIFFERENT TYPES OF ACTIONS!

#### **SETTLEMENT UPGRADING**

**PROJECTS** 

# Health Project

Infrastructure Project

Social Project

Legal Project

Housing **Project** 

Reduce epidemics

Widen public health

**Labor** reproduction

**Basic sanitation** 

**BM Credit** 

Credit to small businesses

Support to micro enterprises

Self-help & employment

School construction

Playgrounds and creches

Vocational programs

**Employment** generation

Tenure regulation

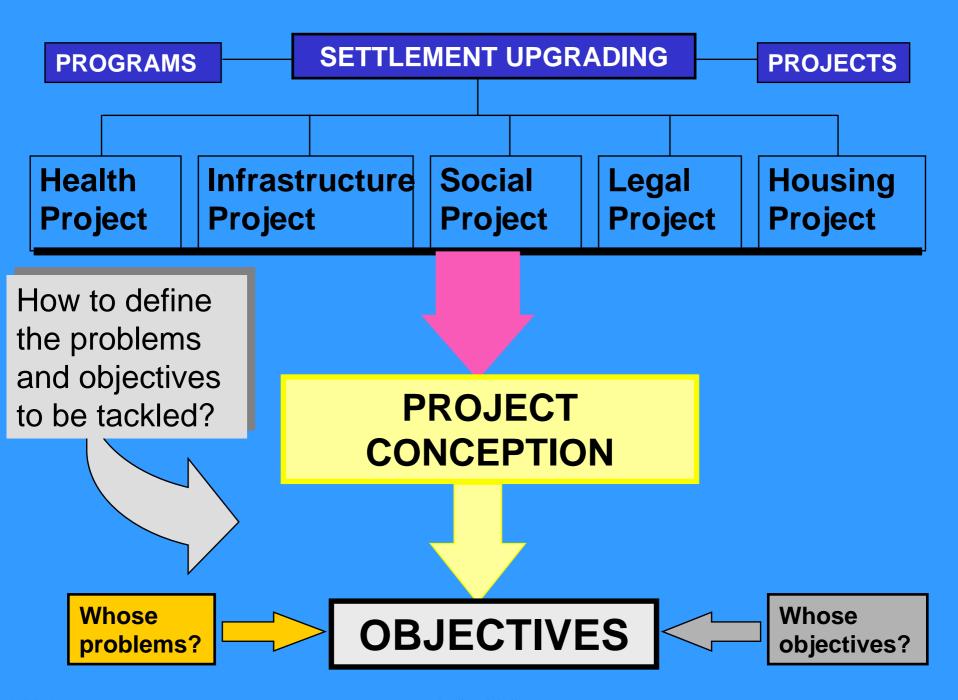
Norms & control building activities

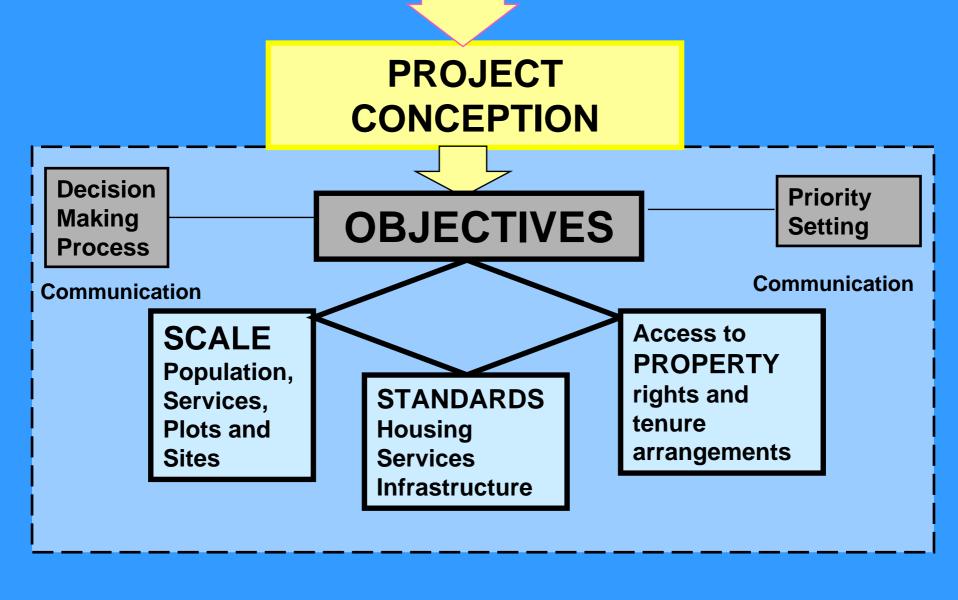
Property titling

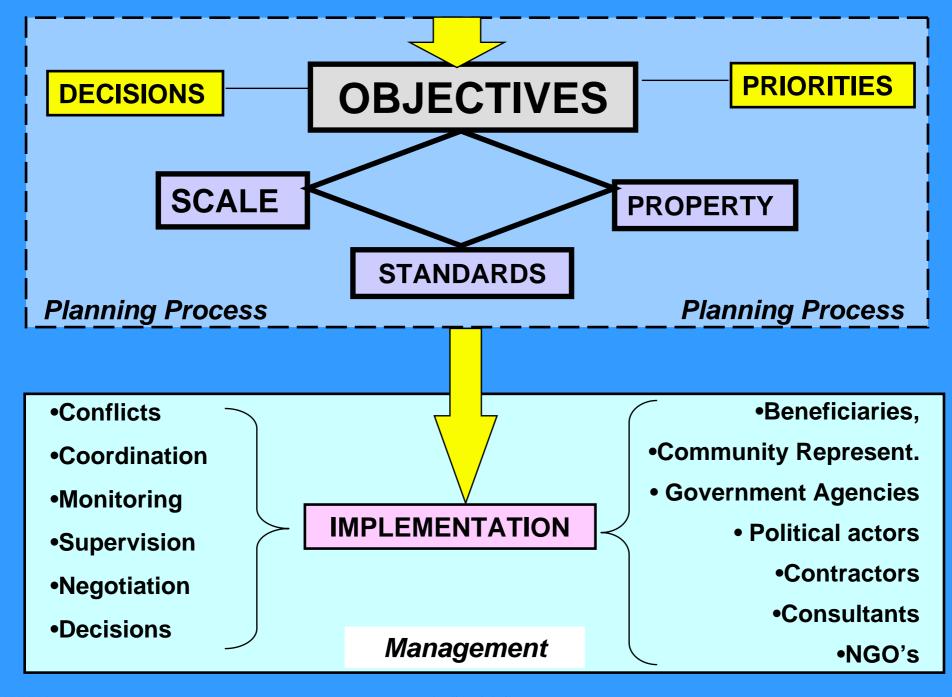
Improvement of housing stock

**Credit to BM** 

Technical Assistance

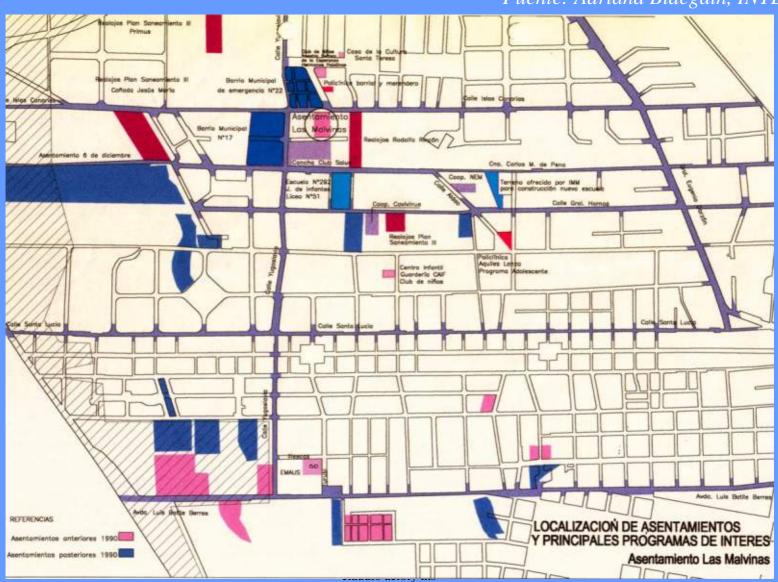






### Settlement MALVINAS Montevideo, URUGUAY

Fuente: Adriana Bidegain, INTEC, 2002



### **Existing Situation**

Fuente: Adriana Bidegain, INTEC, 2002 PASAJE YUGOSLAVIA Promote de belle 33 D

### Views of Ring Roads

Fuente: Adriana Bidegain, INTEC, 2002











## Internal Accesses and Pathways

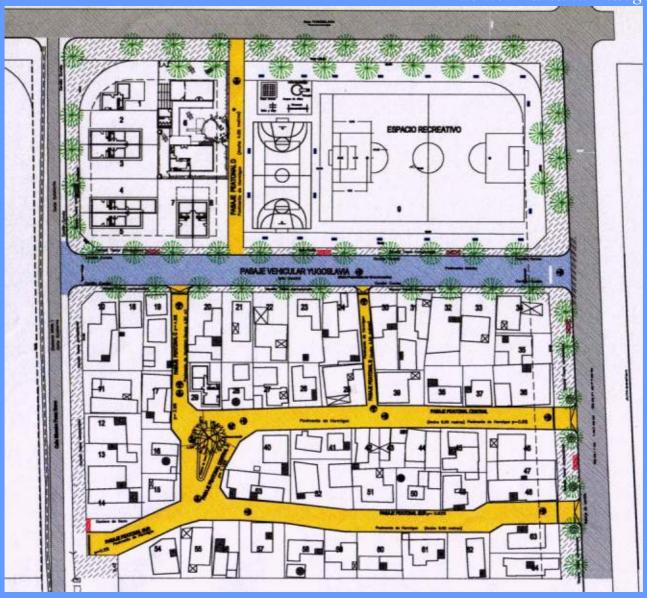
Fuente: Adriana Bidegain, INTEC, 2002





### Neighbourhood Improvement Proposal

Fuente: Adriana Bidegain, INTEC, 2002

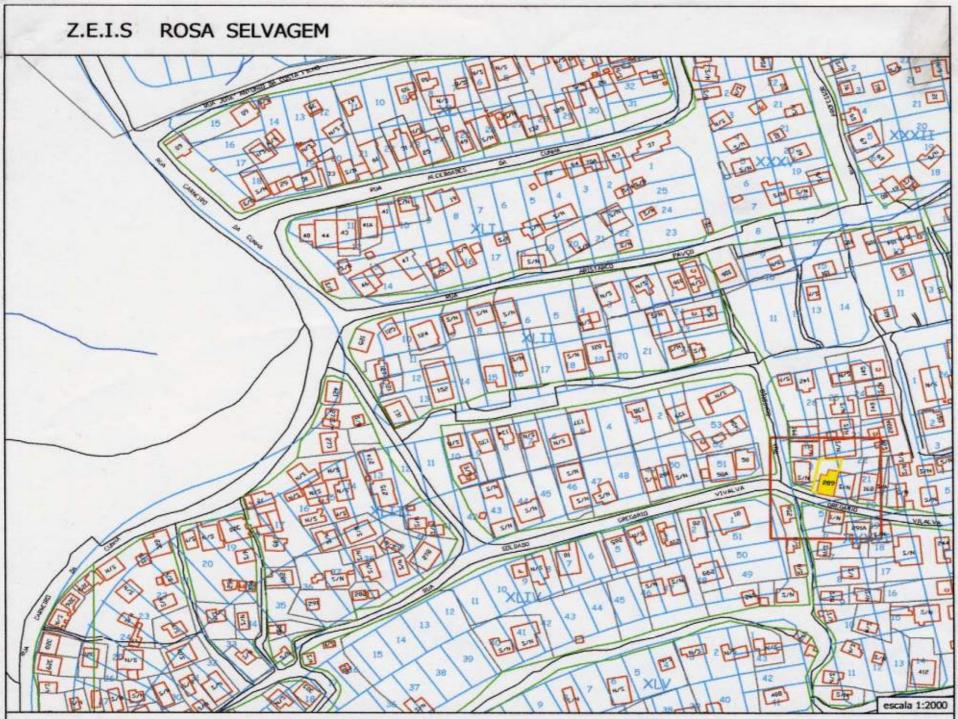


# Sanitation and Sewerage Network Fuente: Adriana Bidegain, INTEC, 2002

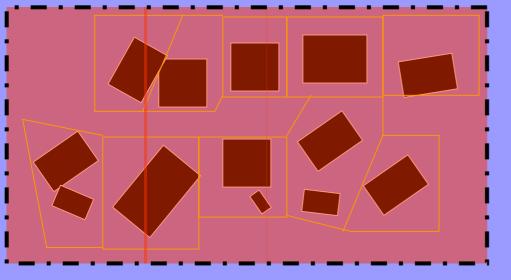


#### The Tension Between Public and Private Domain





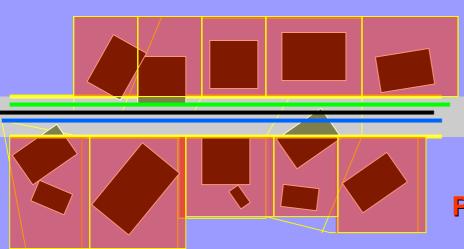




### Fallacy of the Jurist

**Collective Domain** (condominium principle)

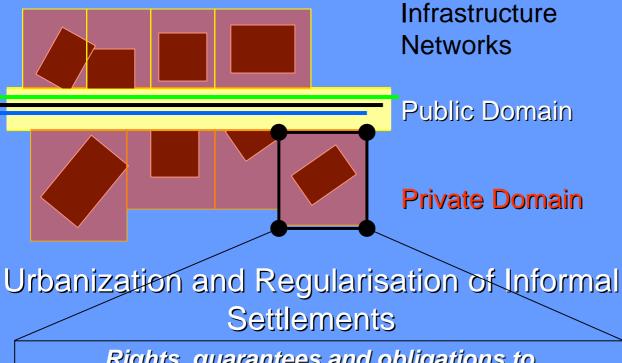
### Fallacy of the Planner



Infrastructure Networks

**Public Domain** 

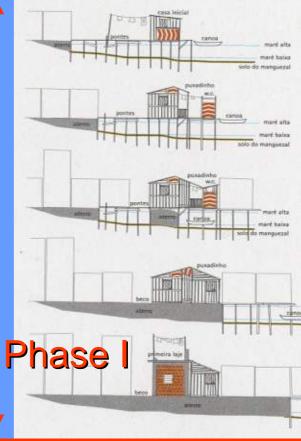
**Private Domain** 

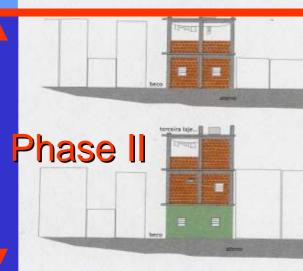


Rights, guarantees and obligations to individuals/families through the title and/or a legal document that recognizes land possession and/or property

#### **Urbanistic & Building Regularisation**

- 1. Law Enforcement
- 2. Adjusting to current laws, norms and uses
- 3. Limits of Individual Actions
- 4. Regularization of the construction
- 5. Control Mechanisms on Urbanism





### Weaknesses at Project Level

1.

Inadequate cartographic basis

2.

The demand for "finished" projects is not compatible with the reality – process-based & adaptative vision

3.

Lack of planning and participatory project design instruments & skills

4.

Norms to approve projects are incompatible with the physical/spatial reality of settlements

**5.** 

Technical cadre not well-trained for the social and organisational complexity of the population (learning by doing) 6.

There is no commitment to the "post-implementation", to strengthen 'non-state public management' and the local economy

7.

Lack of tools for project communication and interface with civil society`

# **Brief Conclusions 5:**

The technical & planning dimension

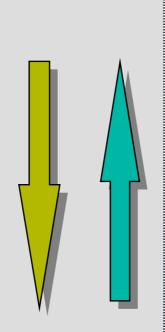
### Problems & Obstacles

### Different Logic Requires Different Tools

- 1. PLANNING
- 2. IMPLEMENTATION OF SERVICES AND INFRASTRUCTURE
- 3. CONSTRUCTION

4. OCCUPATION





- 1. OCCUPATION
- 2. CONSTRUCTION / consolidation
- 3. IMPLEMENTATION OF SERVICES AND BASIC INFRASTRUCTURE
- 4. PLANNING

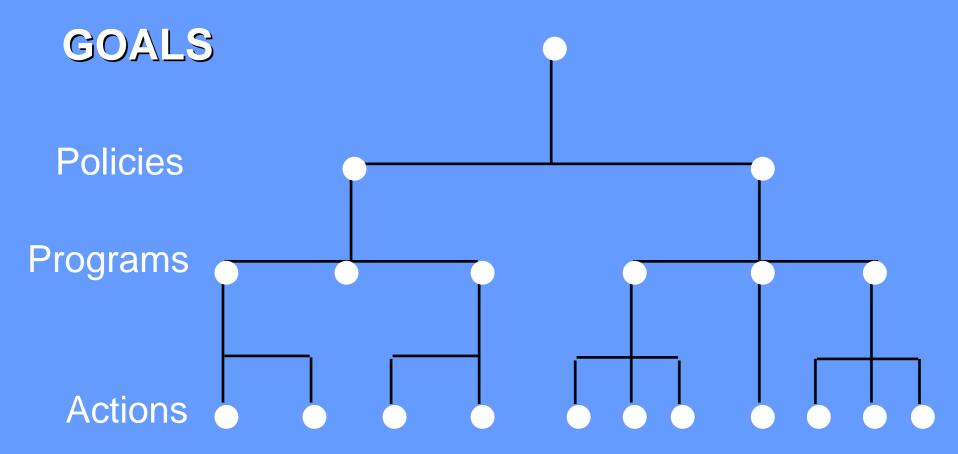
INFORMAL URBANIZATION

**Different Processes of Project Planning & Project Management** 

**Methods & Techniques Appropriate to Existing Situations** 

**Innovative Interventions** 

Is our thinking influenced by the rationalism and technocratic planning that makes it difficult to pursue the necessary changes???



### Some Basic Conclusions on Upgrading:

- 1. Must involve stakeholders from ground zero;
- 2. The plan is a process and therefore dynamic;
- Investments in infrastructure requires a settlement plan defining private & public domain
- 4. The occupation of land prior to the existence of a plan requires a process of co-management but this conflicts with the technocratic tradition;
- 5. Fixed rules of planning & management put residents aside and take away their level of commitment to the post-upgrading
- 6. Reversing the conventional order first legalisation then urban regularisation may eliminate the risk of eviction but it can also make it difficult for infrastructure provision

Regularization, Legalization or Urbanization. What do we do first and for which objective?

### REGULARISATION

### Interventions geared to recognition, legitimisation and legalisation of land tenure and land occupation

- (1) To whom does the land belong?
- (2) Is there a conflict or land dispute on property rights, occupation?
- (3) Who are the parts in conflict?
- (4) Is there any norm regulating the use and occupation of land?
- (5) What kind of information about the settlement does exist?
- (6) Is there any impact of any nature e.g. environment, traffic, restriction in use;
- (7) There are many questions to ask !!!!!!

### Totally Distinct Solutions, Approaches and **Intervention Mechanisms**

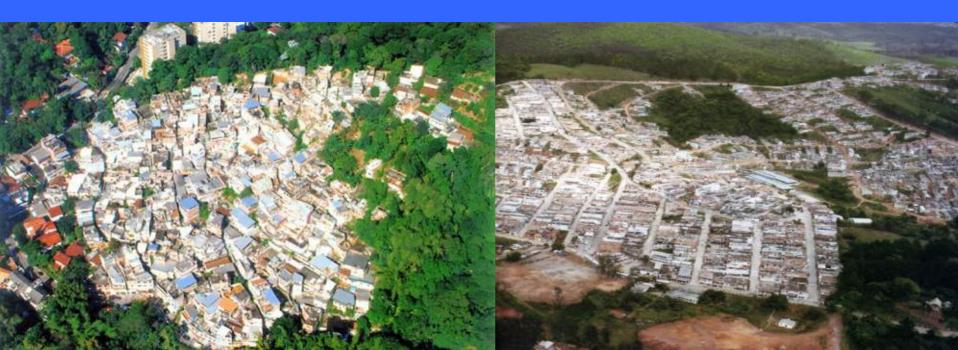
**Spontaneous Occupations** 

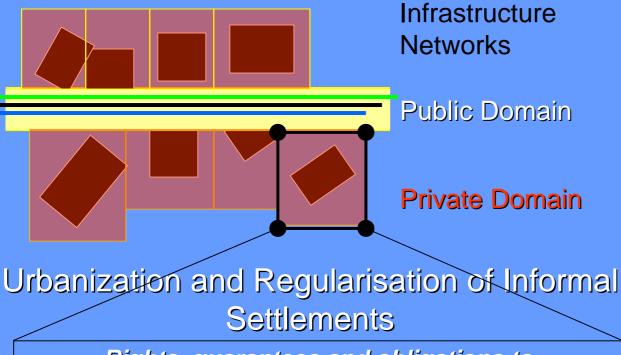
Organised or Densification



**Land Subdivisions** 

Guided and/or by Sell & Buy

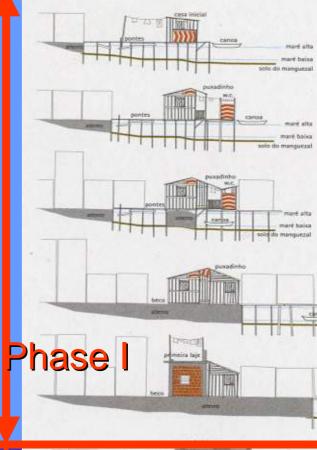




Rights, guarantees and obligations to individuals/families through the title and/or a legal document that recognizes land possession and/or property

#### Urbanistic & Building Regularisation

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### Some conclusions...

### Some Basic Conclusions on Upgrading:

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- 6. Reversing the conventional order first legalisation then urban regularisation may eliminate the risk of eviction but it can also make it difficult for infrastructure provision

### **Basic Conclusions on Regularisation**

- 1. Governments cannot do it by itself;
- 2. The NGO's have a fundamental role to play as technical advisors;
- 3. There is a need to simplify;
- 4. We must break with the traditions in various levels;
- 5. We must empower intermediary levels of governments and local actors
- 6. We just strengthen the capacity of the various actors and stakeholders on the regularisation processes and new procedures

# Citywide Programme requires institutional development and management capacities.

#### **Remedial Policies**

- 1. Planning TO ENABLE development
- 2. Strategies to improve existing situation
- 3. Approaches to improve quality of life





### Preventive Policies

- 1. Planning BEFORE development
- 2. Enabling housing strategies
- 3. Approaches to access housing inputs
- 4. Resolving the land question
- 5. Linking housing and income

NOT
Planning for
Development

BUT

Formalisation of Development

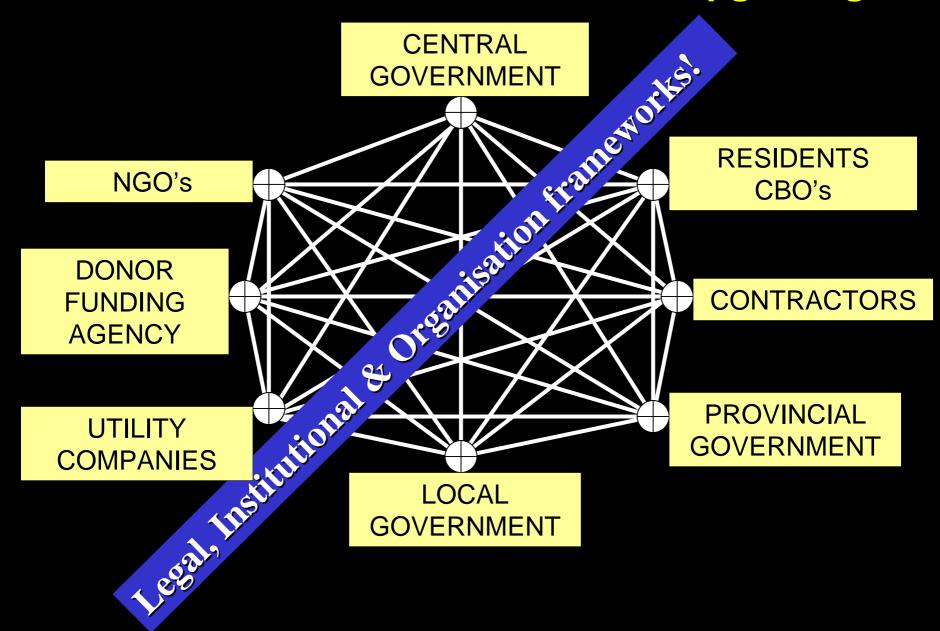
### Bulk of Experiences with Slum Upgrading Projects and Citywide Programmes

- 1. Lusaka Upgrading and Sites & Services Programme
- 2. KIP-Kampung Improvement Programme
- 3. PRIMED-Integrated Programme for the Improvement of Deteriorated Neighbourhoods in Medellin
- 4. Favela Bairro Programme in Rio de Janeiro
- 5. Social Inclusion Programme of Santo Andre
- 6. Slum Improvement Programme of Ahmedabad
- 7. Slum Networking in Mumbai
- 8. APUSP-Andhra Pradesh Urban Services for the Poor Project
- 9. PMBB-Neighbourhood Improvement Programme of Bissau
- 10. Colombo Slum Upgrading Programme

# Citywide Programmes demand critical measures:

- 1. Establish institutional and organisational framework
- 2. Define legal framework
- 3. Management and Implementation Capacities
- 4. Define flow of funds and sources of funding
- Determine who is involved and how
- 6. Establish contractual procedures
- 7. Clarify how residents/beneficiaries can participate
- 8. Organise communication strategy

### Lessons learned from 4 decades of Upgrading:



# The financial and economic dimension of SU programmes

Table 1		Nagra s	Reign	di le pa	Source	of investment (	\$ billions)
Investment required to upgrade slums and provide alternatives to slums by 2020  Note: Numbers in table may not sum to totals due to rounding.	Intervention	Target population (millions)	Average cost per person (\$)	Total (\$ billions)	Donors	Governments	Slum dwellers and future low-income urban residents
	Upgrading slums	100	670	67	23	37	7
Source: Task force estimates calculated based on data from UN-HABITAT 2003a; Flood 2004; World Bank 2003a; FISE 2004.	Providing alternatives to slums	570	400	227	78	126	22
	Total	670	440	294	101	163	29

Table 8.3 Estimated per capita and total	Component	Arab states, Turkey, and Iran	East Asia (Including China) and Oceania	Latin America and the Caribbean	South Central Asia	Southeast Asia	Sub-Saharan Africa, Egypt, and Sudan
investment required to upgrade slums, by region, 2005–20	Construction of basic housing	472	338	488	306	324	125
U.S. dollars per capita  Note: Numbers in table may not sum to totals due to rounding.	Purchase of land or transfer	80	38	7	32	34	14
a. Calculated as 30 percent of the value of	Relocation	55	20	27	11	15	14
b. Calculated as 10 percent of the overall costs of the rest of components.	Provision of networked infrastructure	235	51	235	51	51	145
Source: Flood 2004; World Bank 2003a; FISE 2004.	Provision of bulk infra- structure <sup>a</sup>	71	15	71	15	15	44
	Construction of schools and clinics	12	10	18	10	10	12
	Construction of community facilities	15	10	15	10	10	10
Andrew and the state of	Planning and oversight	268	81	230	121	126	117
process of the party of the par	Capacity building <sup>b</sup>	121	56	109	56	58	48
make a street with the later	Total cost per person	1,328	619	1,200	612	643	528
petitionally between the self-self-self-self-self-self-self-self-	Number of people (millions)	4	20	8	30	7	31
and the senses bro	Total cost (\$ billions)	5.3	12.4	9.6	18.3	4.5	16.4

### Costs of Infrastructure for Land Tracts Possible to be Urbanized

Water	10.64%
Sewerage	19.86%
Drainage	9.99%
Electricity & Publ Lighting	12.44%

Source: Analise de Habitacao Informal e Avaliacao de Programas de Urbanizacao de Favelas, MV Serra & D. Motta, World Bank, 2005.

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## Average Costs of Infrastructure for Normal and Complex Favelas

	<b>Normal</b>	<u>Complex</u>
Water	5.73%	7.53%
Sewerage	23.07%	18.00%
Drainage	26.69%	30.00%
Pavement	18.67%	18.72%
Landslide Protection	8.87%	25.62%
Relocation & Reconstruction	16.98%	(6-10% of families)

Source: Analise de Habitacao Informal e Avaliacao de Programas de Urbanizacao de Favelas, MV Serra & D. Motta, World Bank, 2005.

### Average Costs: Slum Upgrading

	ALL	<b>Infrastructure</b>
Public Works	84.84%	7.53%
Infrastructure	55.71	100.00%
Pavement	14.635	4.62%
Water	2.93%	4.62%
Sewerage	13.02%	23.64%
Drainage	17.06%	32.61%
Creek Canalization	1.65%	0.927%
Risk Area Control	5.65%	8.30%
Relocation & Reconstruction	(6-10% of fan	nilies)
Landscape Improvement	075%	1.04%
Superstructure	13.59%	
Preliminary services	15.54%	
Engineering & Architecture Design	3.62%	
Project Management 30/8/2007 claudio a	11.54 acioly ihs	

### COSTS TO UPGRADE FAVELAS

#### **Funds Necessary to Upgrade Favelas**

		Number of		
	Population of	Families in	Costs per	
	the Favelas	Favela	Family	Total Investment
Belém	359.785	85.663	7.085,23	606.942.732,27
Belo Horizonte	723.323	172.220	1.145,87	197.341.458,57
Goiânia	158.962	37.848	10.997,79	416.245.403,33
Porto Alegre	287.161	68.372	4.997,78	341.706.548,23
Recife	781.426	186.054	5.957,23	1.108.365.335,71
Rio de Janeiro	1.092.783	260.186	7.147,65	1.859.721.526,18
Salvador	875.033	208.341	6.148,00	1.280.881.639,05
Santo André	120.500	28.690	8.713,29	249.988.439,29
Teresina	133.857	31.871	1.925,25	61.359.092,68
Vitória	86.462	20.586	5.454,16	112.280.376,65
Totales	4.619.292	1.099.831	-	6.234.832.551,96

Fuente: A. Larangeira, IHS, 2005.

### COSTS TO UPGRADE FAVELAS

### **Existing Financial Resources**

		Resources	
	total investment	Mobilised	%
Belém	606.942.732,27	21.170.000,000	3,49
Belo Horizonte	197.341.458,57	58.087.000,000	29,43
Goiânia	416.245.403,33	30.179.000,000	7,25
Porto Alegre	341.706.548,23	18.940.000,000	5,54
Recife	1.108.365.335,71	8.200.000,000	0,74
Rio de Janeiro	1.859.721.526,18	926.000.000,000	49,79
Salvador	1.280.881.639,05	61.480.000,000	4,80
Santo André	249.988.439,29	22.949.000,000	9,18
Teresina	61.359.092,68	40.828.000,000	66,54
Vitória	112.280.376,65	78.600.000,000	70,00
Total	6.234.832.551,96	1.266.433.000,000	20,31

Fuente: A. Larangeira, IHS, 2005.

### Source of Funding: Upgrading costs

#### **Financial Resources:**

	R\$	%
Municipalidades	492.656.000,00	38,90
Gobierno Federal	148.854.000,00	11,75
Emprestimos Internacionales	593.100.000,00	46,83
Donaciones	15.341.000,00	1,21
Otros	16.482.000,00	1,30
Total	1.266.433.000,00	100,00

#### Financial Resources Excluding Favela-Bairro Programme (Rio):

Municipalidades	136.656.000,00	41,29
Gobierno Federal	148.854.000,00	44,98
Emprestimos Internacionales	13620000,000	4,12
Donaciones	15.341.000,00	4,64
Otros	16.482.000,00	4,98
total	330.953.000,00	100,00

Fuente: A. Larangeira, IHS, 2005.

### **UPGRADING COSTS**

#### PERIOD OF FINANCING

